

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Allen Comer et al.

Serial No.:

Filed:

Entitled:

cation of: Allen Comer et al.

10/087,346
03/01/02
Skin Substitutes With Improved Barrier Function

SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT TRANSMITTAL

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

### CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8(a)(1)(i)(A)

I hereby certify that this correspondence (along with any referred to as being attached or enclosed) is, on the date shown below, being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:: Commissioner for Patents, P.O. Box 1450, Alexandria, VA. 22313-1450.

Dated: October 15, 2003

Sir or Madam:

Enclosed please find a Supplemental Information Disclosure Statement and Form PTO-1449, including copies of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

Applicants believe no fee is required. If the Commissioner deems otherwise, the Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1290. An originally executed duplicate of this transmittal is enclosed for this purpose.

Dated:

October 15, 2003

hell Jones

Registration No. 44,174

MEDLEN & CARROLL, LLP 101 Howard Street, Suite 350 San Francisco, California 94105 608/218-6900



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re Application of: Allen Comer et al.

Serial No.:

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Group No.: 1632

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Examiner:

Chen

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# THE RIVER TO STATE OF THE PROPERTY OF THE PROP SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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Sir or Madam:

The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

Applicants have become aware of the following printed publications which may be material to the examination of this application:

- Berger et al., Secreted placental Alkaline Phosphatase: A Powerful New Quantitative Indicator Of Gene Expression In Eukaryptic Cells, Gene 66:1-10 (1988)
- Gibbs et al., Culture Of Reconstructed Epidermis In A Defined Medium at 33°C Shows A Delayed Epidermal Maturation, Prlonged Lifespan And

- Improved Stratum Corneum, Arch Dermatol Res. 1997 Sep;289(10):585-95. Erratum in: Arch Dermatol Res 1998 Jan-Feb;290(1-2):28.
- Andraedis *et al.*, Keratinocyte growth factor induces hyperprofileration and delays differtiation in a skin equivalent model system, FASEB 15:898-906 (2001)
- Auger et al., Multistep Production Of Bioengineered Skin Substitutes:
   SEquential Modulation Of Culture Conditions, In Vitro Cell Dev. Biol.-Animal 36:96-103 (2000)
- Chilcott *et al.*, Transepidermal Water Loss Does Not Correlate With Skin Barrier Function *In Vivo*, J. Investigative Dermatology 118:871-875 (2002)
- Goretsky *et al.*, Surface electrical capacitance as an index of epidermal barrier properties of composite skin substitutes and skin autografts, Wound Repair and Regeneration 3:419-425 (1995)
- Boyce et al., Surface Electrical Capacitance as a Noninvasive Index of Epidermal Barrier in Cultured Skin Substitutes in Athymic Mice, Soc. for Investigative Dermatology, 82-87 (1996)
- Vicanova et al., Incorporation of linoleic acid by cultured human keratinocytes,
- Swartzendruber et al., Molecular Models of the Intercellular
   Lipid Lamellae in Mammalian Stratum Corneum, Soc. for Investigative
   Dermatology,92:251257 (1989)
- Ponec *et al.*, Lipid and ultrastructural scharacterization of reconstructed skin models, Int.1 J. of Pharmaceutics, 203:211-225 (2000)
- Gibbs *et al.*, Temperature-sensitive regulation of epidermal morphogenesis and the expression of cornified envelope precursors by EGF and TGFα, Cell Tissue Res., 292:107-114 (1998)
- Uchida et al., Vitamin C Stimulates Sphingolipid Production and Markers of Barrier Formation in Submerged Human Keratinocyte Cultures, Soc. for Investigative Dermatology, 117:1307-1313 (2001)
- Boyce et al., Vitamin C Reggulates Keratinocyte Viability, Epidermal Barrier,
   and Basement Membrane In Vitro, and Reduces Wound Concentration After

Grafting of Cultured Skin Substitutes, Soc. for Investigative Dermatology, 118:565-572 (2002)

- Supp *et al.*, Incubation of cultured skin substitutes in reduced humidity promotes cornification in vitro and stable engraftment in athymic mice, Wound Repair and Regeneration, 7:226-237 (1999)
- Boyce et al., Lipid Supplemented Medium Induces Lamellar Bodies and Precursors of Barrier Lipids in Cultured Analogues of Human Skin, Soc. for Investigative Dermatology, 101:180-184 (1993)
- Vicanova et al., Normalization of Epidermal Calcium Distribution Profile in Reconstructed Human Epidermis Is Related to Improvement of Terminal Differentiation and Straum Corneum Barrier Formation, Soc. for Investigative Dermatology, 111:97-106 (1998)

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: October 15, 2003

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608/218-6900

FORM PTO-1449 (Modified)

EXAMINER:

Department of Commerce tent and Trademark Office

Attorney Docket No.: STRATA-06949

Serial No.: 10/087,346

INFORMATION DISCLOSURE STATEMENT E (Use Several Sheets If Necessary) EMENT BY APPLICANT

Applicant: Allen Comer et al.

(37 CFR § 1.98(b))

Filing Date: 03/01/02 Group Art Unit:

<u> </u>	.98(b))	Thing Date. 05/01/02 Group Art Onic.
		OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)
	1	Berger et al., Secreted placental Alkaline Phosphatase: A Powerful New Quantitative Indicator Of Gene Expression In Eukaryptic Cells, Gene 66:1-10 (1988)
	2	Gibbs et al., Culture Of Reconstructed Epidermis In A Defined Medium at 33°C Shows A Delayed Epidermal Maturation, Prlonged Lifesp And Improved Stratum Corneum, Arch Dermatol Res. 1997 Sep;289(10):585-95. Erratum in: Arch Dermatol Res 1998 Jan-Feb;290(1-2):28
	3.	Andraedis <i>et al.</i> , Keratinocyte growth factor induces hyperprofileration and delays differtiation in a skin equivalent model system, FASEB 15:898-906 (2001)
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	6	Goretsky et al., Surface electrical capacitance as an index of epidermal barrier properties of composite skin substitutes and skin autografts, Wound Repair and Regeneration 3:419-425 (1995)
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	8	Vicanova et al., Incorporation of linoleic acid by cultured human keratinocytes, Arch Dermatol Res. 291:405-412 (1999)
	9	Swartzendruber et al., Molecular Models of the Intercellular Lipid Lamellae in Mammalian Stratum Corneum, Soc. for Investigative Dermatology,92:251257 (1989)
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	14	Supp et al., Incubation of cultured skin substitutes in reduced humidity promotes cornification in vitro and stable engraftment in athymic mice, Wound Repair and Regeneration, 7:226-237 (1999)
	15	Boyce et al., Lipid Supplemented Medium Induces Lamellar Bodies and Precursors of Barrier Lipids in Cultured Analogues of Human Sk Soc. for Investigative Dermatology, 101:180-184 (1993)
	16	Vicanova et al., Normalization of Epidermal Calcium Distribution Profile in Reconstructed Human Epidermis Is Related to Improvement of Terminal Differentiation and Straum Corneum Barrier Formation, Soc. for Investigative Dermatology, 111:97-106 (1998)
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	<del>                                     </del>	
		Date Considered:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.